CHANNEL & CULVERT PLAN & PROFILE
STA 561+36 M.L.

Calculated	Checked
By: GRS	By: KDD
Date: 3/92	Date: 3/92

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO	HOC-328-10.51	

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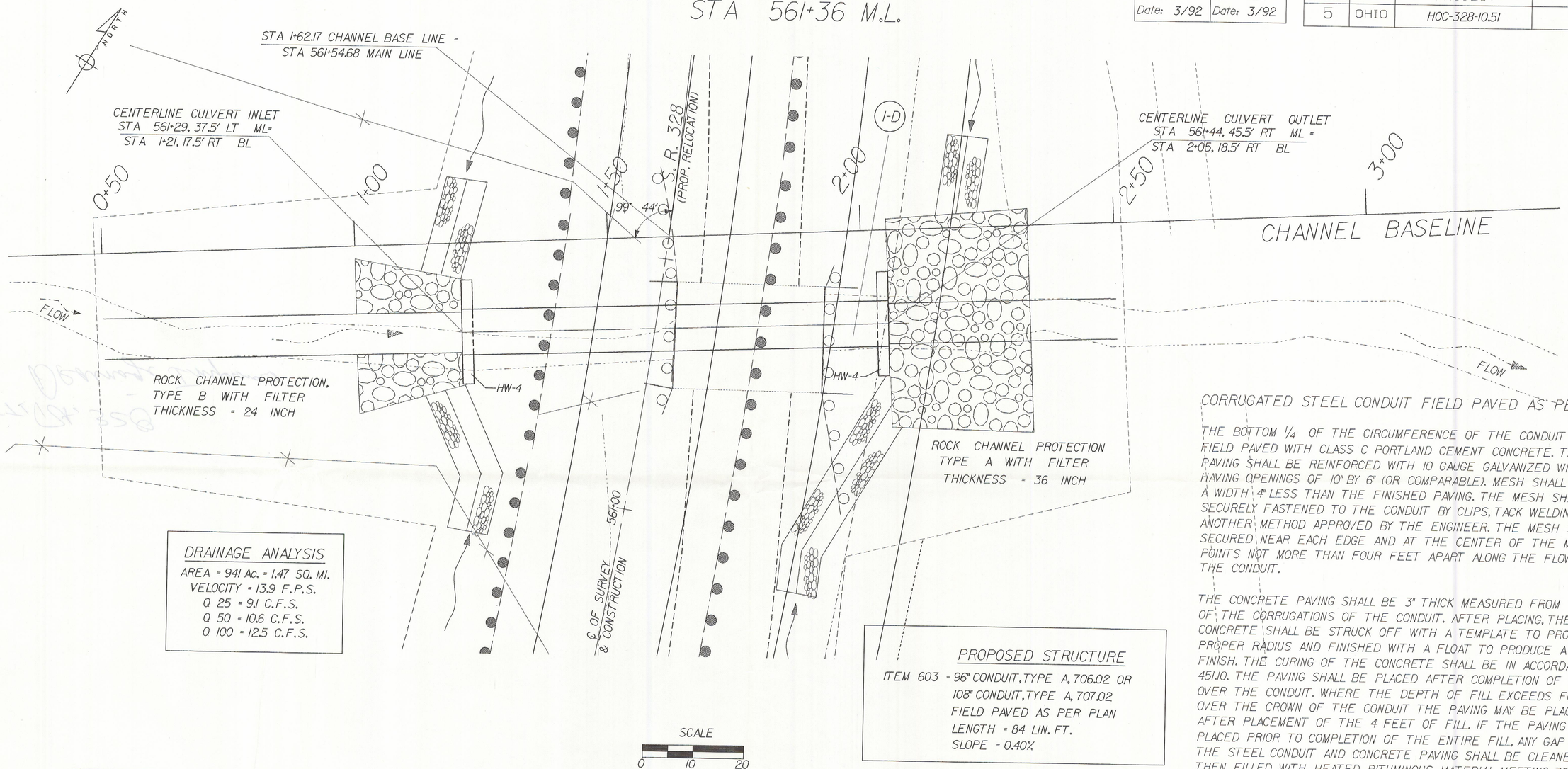


DRAINAGE ANALYSIS

AREA = 941 Ac. = 1.47 SQ. MI.
VELOCITY = 13.9 F.P.S.
Q 25 = 9.1 C.F.S.
Q 50 = 10.6 C.F.S.
Q 100 = 12.5 C.F.S.

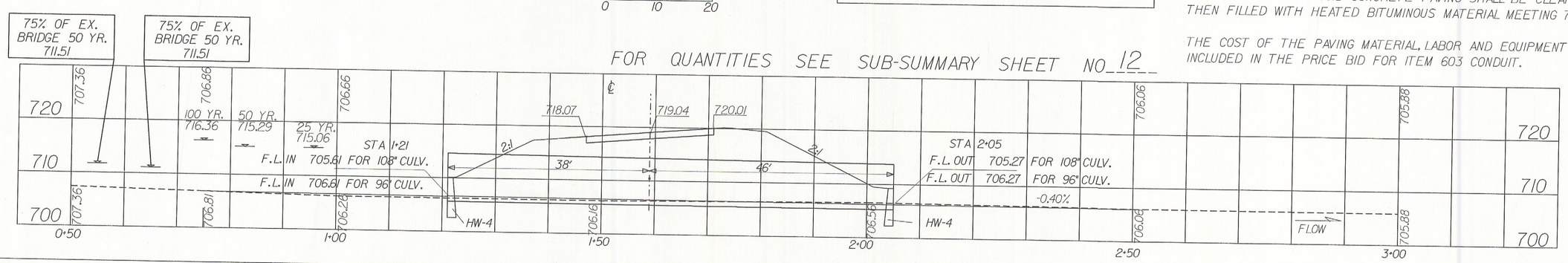
PROPOSED STRUCTURE

ITEM 603 - 96" CONDUIT, TYPE A, 706.02 OR
108" CONDUIT, TYPE A, 707.02
FIELD PAVED AS PER PLAN
LENGTH = 84 LIN. FT.
SLOPE = 0.40%

CORRUGATED STEEL CONDUIT FIELD PAVED AS PER PLAN

THE BOTTOM 1/4 OF THE CIRCUMFERENCE OF THE CONDUIT SHALL BE FIELD PAVED WITH CLASS C PORTLAND CEMENT CONCRETE. THE PAVING SHALL BE REINFORCED WITH 10 GAUGE GALVANIZED WIRE MESH HAVING OPENINGS OF 10" BY 6" (OR COMPARABLE). MESH SHALL BE A WIDTH 4" LESS THAN THE FINISHED PAVING. THE MESH SHALL BE SECURELY FASTENED TO THE CONDUIT BY CLIPS, TACK WELDING, OR ANOTHER METHOD APPROVED BY THE ENGINEER. THE MESH SHALL BE SECURED NEAR EACH EDGE AND AT THE CENTER OF THE MESH AT POINTS NOT MORE THAN FOUR FEET APART ALONG THE FLOW LINE OF THE CONDUIT.

THE CONCRETE PAVING SHALL BE 3" THICK MEASURED FROM THE TOP OF THE CORRUGATIONS OF THE CONDUIT. AFTER PLACING, THE CONCRETE SHALL BE STRUCK OFF WITH A TEMPLATE TO PRODUCE THE PROPER RADIUS AND FINISHED WITH A FLOAT TO PRODUCE A SMOOTH FINISH. THE CURING OF THE CONCRETE SHALL BE IN ACCORDANCE WITH 451.10. THE PAVING SHALL BE PLACED AFTER COMPLETION OF THE FILL OVER THE CONDUIT. WHERE THE DEPTH OF FILL EXCEEDS FOUR FEET OVER THE CROWN OF THE CONDUIT THE PAVING MAY BE PLACED AFTER PLACEMENT OF THE 4 FEET OF FILL. IF THE PAVING IS PLACED PRIOR TO COMPLETION OF THE ENTIRE FILL, ANY GAP BETWEEN THE STEEL CONDUIT AND CONCRETE PAVING SHALL BE CLEANED AND THEN FILLED WITH HEATED BITUMINOUS MATERIAL MEETING 705.04.

THE COST OF THE PAVING MATERIAL, LABOR AND EQUIPMENT SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 603 CONDUIT.

FOR QUANTITIES SEE SUB-SUMMARY SHEET NO. 12